CINIL ERC, A+ON

### **CHECK SHEET**

# A FINALIZED GRANT MUST INCLUDE THE FOLLOWING

G	Application Title Page (original signatures)	<b>V</b>
G	Goals	√
G	Objectives	4
G	Line item budget	1
G	Budget narrative (detailed)	1
G	Certified Assurances (original signatures)	1
G	Compliance Certification (original signature)	1
G	One original of the completed application	1

# STATE OF NEVADA EMERGENCY RESPONSE COMMISSION Fiscal Year 2010 Grant Application

### University of Nevada Las Vegas

gency:	University of Nevada Las Vegas  Las Vegas, NV		Address:4505 Maryland Parkway  Zip: 89154-1042 Phone No.: 702-895-0463		
	702-895-4690	E-mail Address	gary.snodgrass@unlv.edu		
Name of LEPC Ch	Jim O'Bi	ien			
Fiscal Officer: Phor		ne No: Fa	x No.:		
	Summary: —————————Planning	Training	Equipment	TOTAL	
	Planning	Training	Equipment	TOTAL	
\$		\$	\$30000.00	\$30000.00	
On beha	APPROVAL:  alf of the UNLV  polication and a  nce of funds.	/ Emergency Respons gree to abide by the F	se Program I certify this of ederal and State procedur	rganization has reviewe es which are related to t	
On beha grant ap accepta	alf of the UNLV oplication and a nce of funds. Gary B. Snodgra Managemer	/ Emergency Responsing Free to abide by the Free to abide of UNLV Responsible of UNLV Responsible to the International Property Safer of UNLV Responsible to the International Property Safer of UNLV Responsible to the International Property Safer International	ederal and State procedur  mental	rganization has reviewe es which are related to t	

## The following are UNLV's Grant Criteria as required by the SERC Application Grant Kit:

I. Goals - UNLV has been developing its emergency preparedness and response program for the last 3 years. Our specific goals for emergency response are to maintain the capability to respond to any emergency on campus, accurately assess the hazards associated with a hazardous substance incident and take action to protect students, faculty and other people in the area, including laboratories and other facilities on campus. Action to protect people includes entering a dangerous atmosphere to extract someone out who may be overcome by dangerous vapors, prior to the arrival of the Clark County Fire Department. UNLV completed development and approval of the Hazardous Substance Emergency Response Plan on October 9, 2008. To meet our written plan, and more importantly to improve our preparedness and our capability for hazardous substance response, we are in dire need of updating our equipment, specifically our personnel protective equipment and our chemical identification tools. At this time we would not request funding for planning or training, but only for a good quality chemical identification instrument. UNLV has accomplished a considerable amount of planning within its current budget. Our prior development and planning has included a review and analysis of the hazardous substances on two campuses, which includes hazards associated with more than 75000 chemicals in the inventory, As part of our preparedness we have done a risk assessment, and accomplished the development of the UNLV Hazardous Substance Emergency Response Plan. In addition, we have worked closely with the UNLV Public Safety Office, Police Services to coordinate our response capability, review our plan and ensure that our notification process is in place and working properly. Within our Risk Management and Safety Department is the Environmental Management and Laboratory Safety program in which our Emergency Response program resides organizationally. The planning and day-to-day activities that we do for the program are provided for in current funding and we are, therefore, not requesting funding for planning. Equipment, however, is not funded and is not likely to get funded for several years due to the budget problems. In order for our team to acquire the necessary tools for emergency response, we will require outside funding. Our team consists of 5 primary hazardous substance response team members, responding to Hazardous Substances including EPA CERCLA substances defined in 40 CFR, Hazardous Materials as defined in 49 CFR and Hazardous Waste incidents as defined in 40 CFR part 261, as well as petroleum spills. In addition, we have three industrial hygiene personnel that are being trained in hazardous substance response operations in the summer of 2009 and three radiological technicians/scientists that have extensive radiation training and experience and will be trained in hazardous substance response operations, also in the summer of 2009.

Our two highest priorities for our emergency response program are personnel protective equipment (PPE) and detection equipment. Our SCBA tanks are nearing the end of their lifetime 15 year lifetime and must be replaced. There are eight of them. In addition, one of the masks does not fit one of our team members and we need to replace it. For this highest priority we are using available funding to bring our SCBA equipment up to par and are not requesting funding for the SCBA equipment.

The other of our highest priorities is the purchase of a handheld detection and identification instrument for organics. The biggest hazards on campus are organic reagents found in virtually every building, especially the science buildings of which there are 10. Often, chemicals are

poured into secondary containers and not identified. We need a good quality handheld instrument to identify such chemicals in emergencies and also for preparedness activities to conduct characterization for risk assessment. The instrument that we have identified for this is the AHURA Defender, which is a Raman Spectroscopic handheld detector with the capability to identify chemicals through glass containers. The cost of this instrument is \$34,000.

II. Objectives - UNLV objectives are to build a strong preparedness program, better defining hazards, continually revising our hazards assessment for the many unknown chemicals and wastes on campus, at several locations including UNLV Main Campus, Shadow Lane Campus, Sam Boyd Stadium and Nevada State College in Henderson. In addition, we have the requirement and capability to mitigate hazards resulting from campus incidents. Spills in laboratories, especially organic solvents and mineral acids or bases, may not start out as incidents requiring response from CCFD. Specifically, incident reporting and notification may not indicate the severity of the problem and, thus, would not trigger a response from CCFD. However, upon arrival, incidents are often either worse than reported or escalate to what could be IDLH levels. To better enable our mitigation teams to reduce risks to our campus public, we have to have the capability to characterize the hazards. Our specific objective here is to determine unknowns, characterize wastes that spill and to ensure that we have the capability to identify mixtures that result from accidents. This emphasizes the need for the chemical detector and identification instrument.

III. Line Item Budget - The following is the itemized budget for this request.

First Defender Detection Instrument

34000.00

UNLV funding provided

<4000.00>

**Budget request** 

30000.00

Note: UNLV intends to make up the difference

IV. Budget Narrative

Equipment

**Detection Instrument** 

UNLV does not have a good detection and identification instrument for characterization of hazards at its many facilities. We have identified an instrument, the First Defender from AHURA, Inc. which is an instrument which can detect and identify a large array of organic and inorganic chemicals. The instrument is used widely by emergency response organizations including law enforcement agencies in Las Vegas. It is a Raman Spectroscopy based instrument equipped with a laser detection system which can accomplish detection from a distance. This would enable our teams to characterize incidents and better manage spills and other releases.

- A. Financial Reports The grantee is an Organization of the State of Nevada Government. All reporting is made in accordance with the applicable regulations and SERC Policies 8.5 and 8.6. No expenditures or obligations are being made prior to award. All funds will be obligated well prior to the end of the grant period. In addition:
  - 1. Request for Advance: No advance funding is requested.
  - 2. Report of Expenditure of Advance. No advance funding will be received.
  - 3. Request for reimbursement: All financial reports will be submitted for all expenditures with proof of payment.
  - 4. Quarterly Report: All quarterly reports required will be submitted. It is expected that there will be only one and it will be submitted in the appropriate quarter.
  - 5. Final Report: A final report will be submitted as required.

6.

- B. Exercise Report: An exercise report will be will be submitted for each exercise conducted.
- C. Grant Change Request: Any changes would only be on training locations and minor equipment changes. No major changes will be made. If there are any changes to be made, they will be requested prior to execution.
- D. UNLV certifies that it is not presently debarred, suspended or proposed for debarment, declared inelligible, or voluntarily excluded from participation in any transaction from any federal department or agency.
- E. UNLV assures that the fiscal accountability of the funds received from the State Emergency Response Commission will be managed and accounted for by it's comptroller and that internal control and authority to ensure compliance with SERC's documentation, record keeping, accounting, and reporting guidelines will reside with that individual.
- F. UNLV and its contractors will comply with the nondiscrimination requirements of the Civil Rights Act of 1964;
- Section 504 of the Rehabilitation Act of 1973; Title IX of the Education Amendments of 1972; the Age Discrimination Act of 1975; and the American Disabilities Act of 1992.
- G. UNLV will abide by the audit requirements as specified in OMB Circular A-133, Audits of State and Local Governments as revised August 29, 1997.
- H. Any publication (written, visual, or audio) issued by UNLV funded whole or in part with federal funds, shall contain the following statement:

"This program was supported by Grant #NA, awarded by the Nevada State Emergency
Response Commission (and, if a
HMEP grant, the U.S. Department of Transportation). Points of view or opinions contained within this
document are those of the
author and do not necessarily represent the official position of policies of the State Emergency Response
Commission (and, if a HMEP grant, U.S. Department of Transportation).

I. UNLV fully understands the State Emergency Response Commission has the right to suspend, terminate, or de-obligate grant funds to any grantee/sub-grantee that fails to conform to the requirements

or the terms and conditions of its grant award.

- J. Lobbying No grant funds appropriated will be paid, by or on behalf of UNLV to any person for influencing or attempting to influence and officer, employee, or a member of Congress, or an officer, employee, or any member of the Nevada State Legislature.
- K. Project Related Income shall be used for the purpose of furthering the goals of objectives of the UNLV emergency response program for which the income was granted. Interest earned will be returned to the State Emergency Response Commission.

#### ORIGINAL SIGNATURES REQUIRED

GOVERNMENTAL UNIT	I.E., COUNTY COMMISSION,	COUNTY MANAGER)
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NAME (PRINT): Gary B. Snodgrass

TITLE: MANAGER, ENVIRONMENTAL MANAGEMENT AND LABORATORY SAFETY, RISK MANAGEMENT & SAFETY DEPARTMENT, UNIVERSITY OF NEVADA LAS VEGAS

DATE: 3 - 10 - 2009



MAR

we have had

incidents but

several

Reported:

2009

#### STATE AGENCY COMPLIANCE CERTIFICATION

Nevade SERC

The following must be met by State Agencies as requirements for compliance with federal and State laws and regulations, and SERC policies and procedures. This checklist must be completed, signed, and returned with the grant application.

A check mark in the squares on the left will indicate a YES response. П Has the head of the State agency prioritized the request and signed the application and Certified Assurances?  $\boxtimes$ Has the agency identified which emergency response plan it operates under and what its role is in that plan? What Plan? UNLV Hazardous Substance Emergency Response Role in Plan? UNLV Responders Has the plan been reviewed and updates submitted to SERC by January 31<sup>st</sup>? Submitted to Karen Review/update -Date: 2-17-09 Submitted: Pabon on 2-17-09 Has the agency identified its role, if any, in the State Hazardous Materials Emergency Response Plan? Role: No - our Plan is new and we will soon be better integrated into the over County and State plans If the agency has response capabilities, has it completed & submitted the Level of Response Questionnaire and attachment by January 31<sup>st</sup>? Review/update -Submitted: Date: 3-10-09  $\Box$ Have all required reports been submitted to SERC which summarize the financial management of the active grants? There have not been any grants from SERC. Has an incident or exercise, tabletop or full scale exercise of the hazardous material emergency response plan taken place and report submitted to SERC by January 31st? No. We conducted an exercise but did not know to report to the SERC. Also.

11-18-08

Indicate the date of the most recent

exercise:

have not provided reports to the SERC. Now that I have the program, I plan to provide reports of incidents and exercises to the SERC. G Snodgrass

03-11-09

**UNLV Environmental Emergency** , I attest all information provided on As head of the Response Program this State Agency Name compliance certification is accurate. Ψ Gary B. Snodgrass

Head of State Age

### **Ahura** Scientific

Ahura Scientific, Inc. 46 Jonspin Road Wilmington, MA 01887 978 657 5555 www.ahurascientific.com

February 24, 2009

Gary Snodgrass University of Nevada Las Vegas Risk Management & Safety Department Las Vegas, NV

#### Dear Gary,

Ahura Scientific, Inc. is pleased to provide you with a quotation for the FirstDefender handheld Raman Spectrometer. The FirstDefender is a significant improvement in the field identification of unknown substances, drug precursors, narcotics, explosives, chemical weapon agents, and toxic industrial chemicals. Raman spectrometers have a number of features beneficial to HazMat and Law Enforcement. The FirstDefender can identify liquid and solid chemicals safety sealed in transparent and semi-transparent materials, including colored glass vials and plastic bags. The system can also be used in a point and shoot mode allowing materials on a surface to be interrogated without direct contact.

The package includes the DecisionEngine™ MX software. This software is an industry first mixture analysis capability that enables the FirstDefender systems to automatically, and reliably resolve mixtures of multiple components. DecisionEngine™ MX effectively increases the identification capability to billions of possible chemical mixtures.

The system weighs less then 4 pounds, is fully water proof to one meter, and has met MIL-STD-810F for shock and vibration. The FirstDefender has been independently tested by the Edgewood Chemical Biological Command (ECBC) for its effectiveness against chemical weapon neat agents and neat agents in the presence of interferents. It has been designed to be operated by personnel in full Level-A gear. A fully charged unit will run for up to five hours. The unit is supplied with a rugged carrying case, 1 additional rechargeable battery, and the accessories to operate the unit.

This quotation includes attached documentation to assist in the justification and purchase of the FirstDefender. If you have any questions please do not hesitate to contact me.

Sincerely,

Scott Fitzpatrick Product Specialist Direct: (979) 777-2874 Mobile:

Version: .0 (May 20, 2005)

#### **Summary Quotation**

Quotation # 2009-SF0225

February 24, 2009

To: Gary Snodgrass

University of Nevada Las Vegas

Risk Management & Safety Department

Las Vegas, NV

From: Ahura Scientific, Inc.

46 Jonspin Road Wilmington, MA 01887 Scott Fitzpatrick Product Specialist (979) 777-2874

sfitzpatrick@ahurascientific.com

FEIN # 01 065 0031

	Product	Base Price	Disc%	Adj. Price	Qty	Extended
1	FirstDefender XLS1	\$34,000.00	0%	\$34,000.00	1	\$34,000.00
2	FD FlexProbe	\$6,500.00	0%	\$6,500.00	1	\$6,500.00
					Total	\$40,500.00

Description	
FirstDefender XLS1	The spectrometer comes with built in computer and Libraries of materials including certain Explosives, Chemical weapons, Toxic industrial chemicals, Toxic compounds, and Narcotics, 2 batteries, battery charger, AC power supply and shipping case. The unit conforms to Military specifications 810F for water and dust resistance and is shockproof when dropped from approximately 4 feet. The FirstDefender has been independently tested for its effectiveness against chemical weapons by the U.S. Army. The unit comes with On-site Training for up to 10 attendees (expires 9 months from date of order) and a 1 year Service period covering product Warranty including next day loaner unit, 24/7 technical support, and Library and Software updates. The system includes the DecisionEngine 2.5 MX software for analysis on chemical mixtures. The FirstDefender XLS comes with Extended Libraries.
FD FlexProbe	Ruggedized flexible fiberoptic extension probe for FirstDefender. Includes 1 year Warranty.
	FirstDefender must be sent into Ahura Scientific for optical matching of the FlexProbe.

Delivery: 120 days ARO

Terms: Net 30

Shipping Terms: FOB Origin
This quote is valid for 30 days
Please fax orders to 978-642-1133

"The technical information contained within these documents are subject to the Export Administration Regulations. Export of this technical information to foreign persons or foreign companies, within or outside the United States, may require prior written authorization by the U.S. Department of Commerce, Bureau of Industry and Security. Contact Ahura Scientific, Inc. prior to such a transfer"

Unless otherwise expressly agreed in writing, all sales by Ahura Scientific, Inc. d/b/a Ahura Safety Corp. ("Ahura") are subject to the following terms and conditions:

- 1. General. These Ahura Scientific, Inc. Terms and Conditions, all Addenda hereto (if any) issued by Ahura, the accompanying sales quote issued by Ahura or its authorized representative (a "Sales Quote", and collectively, the "Agreement") shall exclusively govern Ahura's sale and license of Ahura products ("Products") to the initial purchaser (the "Buyer"). Any additional terms or conditions (preprinted or otherwise) proposed by Buyer shall not become a part of this Agreement.
- 2. <u>Price.</u> Unless expressly stated otherwise in a Sales Quote, the price(s) for the Products will be those listed in the accompanying Sales Quote and expire thirty (30) days from the date thereof. Unless expressly stated otherwise in a Sales Quote, prices exclude all insurance, freight, federal, state and local taxes, fees, customs, duties, levies and other governmental assessments, all of which shall be paid by Buyer within 30 days of invoice of the same by Ahura.
- 3. Shipment. All sales shall be F.C.A. (Incoterms 2000) shipping point. Title (except for software in which case Abura shall retain title) and risk of loss shall pass to Bayer upon the earlier of delivery of the Products to the Bayer or a carrier for shipment to the Bayer. Abura will use reasonable efforts to meet requested shipping dates, but will not be liable for any failure to do so. All shipments will be made at Buyer's risk.
- 4. <u>Payments</u>. Buyer will be invoiced at the time of shipment of each Product. Except as otherwise agreed in writing by Ahura, Buyer shall pay invoices in full within thirty (30) days of the date of invoice. All amounts not paid when due will accrue interest at the rate of 1.5% per month, or the maximum amount allowed by law, whichever is lower.

#### 5. Limited Warranty.

- a. Limited Warranty. The limited warranty set forth herein applies only to the Buyer, may be acted upon only by the Buyer, and may not be assigned, sold or transferred to any third party. Ahura warrants only to the Buyer that, for the applicable warranty period set forth below, the Product shall substantially conform to Ahura's published specifications as of the date of shipment. The warranty period shall be set forth in the applicable Sales Quotation for each Product. The limited warranty herein shall not apply to (i) any Product that has been customized, altered or repaired by any person or entity other than personnel of Ahura or personnel specifically authorized by Ahura, (ii) any Product that has been subjected to abuse, misuse, damage, neglect, or accident beyond Ahura's published limitations for the Product or other causes external to the Products (including, without limitation, environmental conditions and power conditions), (iii) use of the Product in combination with products or software not supplied by Ahura, (iv) any use or operation of the Product other than in accordance with Ahura's then-current published specifications and instructions for the Product, or (v) any non-conformities or defects notified by Buyer to Seller with respect to a Product after the expiration of the applicable warranty period for such Product.
- b. Remedies. Buyer's sole and exclusive remedy and Seller's sole and exclusive liability for a breach of this limited warranty shall be, at Seller's option, Seller's use of its commercially reasonable efforts to repair or replace the non-conforming Product. If Ahura is unable, after reasonable efforts, to repair or replace such substantially non-conforming Products, Ahura, may, at its sole discretion, elect to refund of an amount not to exceed the actual payments received by Ahura for such Product(s). Buyer shall not return any Product to Ahura without an Ahura-issued RMA number. Shipping costs and the risk of loss for a returned Product shall be borne solely by Ahura, and Ahura shall assume the risk of loss while the Product is in the Ahura facility. Products that are repaired or replaced by Ahura

shall be covered by this limited warranty for the remaining warranty period for such Product.

C. Dischinger. THIS LIMITED WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, WHETHER EXPRESS OR IMPLIED, WRITTEN OR ORAL (INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT) WITH RESPECT TO THE PRODUCTS, THE MANUFACTURE, SALE, SUPPLYING OR FAILURE OR DELAY IN SUPPLYING OF THE PRODUCTS, SERVICES RELATED THERETO OR THE USE, RESULTS OR DISPOSITION OF THE PRODUCTS. AHURA EXPRESSLY DISCLAIMS ALL WARRANTIES (WHETHER EXPRESS OR IMPLIED, WRITTEN OR ORAL) WITH RESPECT TO THE RESULTS OBTAINED FROM THE PRODUCT. AHURA DOES NOT WARRANT THAT THE USE OF THE PRODUCT OR ITS RESULTS SHALL BE UNINTERRUPTED OR ERROR-FREE.

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- 9. U.S. Government. The use, duplication, reproduction, release, modification, disclosure or transfer of software Products, or any related documentation of any kind (including, without limitation, technical data or manuals), is restricted in accordance with Federal Acquisition Regulation 12.212 for civilian agencies and Defense Federal Acquisition Regulation 227.7202 for military agencies. The software Products are "commercial items" and commercial computer software and the related documentation is commercial computer software documentation. The use of the software Products and related documentation is further restricted in accordance with the terms of this Agreement and any software license included or provided with a particular software Product.
- 10. Expert Controls. Buyer shall strictly comply with all applicable export laws, controls and regulations. Buyer shall not export, re-export, divert, transfer or disclose, directly or indirectly, any Product or related technical data, materials or documents or any product.

- thereof to any country (or any national or resident thereof) which the U.S. Government determines from time to time is a country (or end-user) to which such export, re-export, diversion, transfer or disclosure is restricted, without obtaining the prior written authorization of Seller and the applicable U.S. Government agency.
- 11. Mincellaneous. This Agreement constitutes the entire agreement between Buyer and Ahura with respect to the subject matter hereof and is the final, complete, and exclusive statement of the terms of the Agreement, superseding all prior written and oral agreements. understandings and undertakings with respect to the subject matter hereof. Modifications may be made only in writing, signed by an authorized corporate officer of Ahura. The waiver of any term or condition or any breach thereof shall not affect any other term of condition of this Agreement. The Agreement shall be governed by and construed in accordance with the laws of the Commonwealth of Massachusetts, without regard to its conflict of law provisions. The U.N. Convention on Contracts for the International Sale of Goods shall not apply to this Agreement. Buyer shall not assign this Agreement without Ahura's prior written consent. If any provision of this Agreement shall be held illegal, unenforecable, or in conflict with any law of any authority having jurisdiction over this Agreement, the validity of the remaining portions or provisions hereof shall remain in full force and affect. Ahura shall not be liable for failure to perform any of its obligations hereunder by reasons that are beyond its reasonable control, including, without limitation, fire, flood, earthquake, interruptions in supply, other natural disaster, war, embergo, riot or acts of terrorism.

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